

Title (en)

METHOD AND APPARATUS FOR THE COMPRESSION MOULDING OF THERMOPLASTIC ARTICLES

Publication

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Application

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Abstract (en)

[origin: WO8907516A1] The above process involves heating the thermoplastic, forming a blank by means of a possibly annular nozzle and separation thereof by possible use of a heated gas stream surrounding the nozzle and oriented towards the point of separation, introduction of the blank into a pressing mould, closure of the latter, forming of the pressing by application of a pressure and cooling of the pressing at least partly under pressure. The entire heated thermoplastic material required for a blank is deposited on the surface forming one part of the pressing mould of an intermediate carrier extended under the nozzle and is separated from the nozzle, whereby the intermediate carrier is lowered on closing of the pressing mould. Also described is a device for performing the process with an extruder for heating thermoplastic material with a possibly annular, closable nozzle (1) suitable for delivering portions of material, said nozzle being possibly surrounded by an annular nozzle (4) for supplying a possibly heated gas flow directed against the separating point of the material portions of the nozzle (1), with at least one closable pressing mould composed of a mould die (5) and a mould punch (13), whereby the mould die (5) can be arranged on the one hand under the nozzle (1) and on the other hand coaxially to the mould punch (13) and whereby a pressure can be applied and/or maintained on the mould punch (13) and/or mould die (5). The mould die (5) contains an extendable intermediate carrier (8) the free surface (11) of which forms, in the retracted position, a part of the mould surface of the mould die (5), which returns the pressing.

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